

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/013995

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H01Q1/32 H01Q7/08 H01Q1/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 H01Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 396 698 A (ORTHMANN KURT ET AL) 14 March 1995 (1995-03-14) column 1, lines 41-68	1
Y	column 2, line 55 - column 3, line 52 column 4, lines 47-65 figures 1-3,7	3, 4
Y	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 10, 31 October 1996 (1996-10-31) -& JP 08 166446 A (KUBOTA CORP), 25 June 1996 (1996-06-25) abstract; figure 1	3, 4
	----- -/-	

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

*Special-categories-of-cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

19 November 2004

11/01/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl
Fax: (+31-70) 340-3016

Authorized officer

Unterberger, M

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2004/013995

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 99/19585 A (HUF HUELSBECK & FUERST GMBH ; KEMMANN HARALD (DE); LANGE STEFAN (DE)); 22 April 1999 (1999-04-22) figures 1,2 page 5, line 21 - page 6, line 19 -----	1-4
A	US 5 253 226 A (GANTER WOLFGANG) 12 October 1993 (1993-10-12) figure 1 column 3, lines 20-53 -----	1-4
A	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 08, 30 August 1996 (1996-08-30) -& JP 08 097616 A (TOKIN CORP), 12 April 1996 (1996-04-12) abstract; figure 1 -----	1-4
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 10, 31 August 1998 (1998-08-31) -& JP 10 117107 A (TOKO INC), 6 May 1998 (1998-05-06) abstract -----	1-4

Information on patent family members

International Application No
PCT/JP2004/013995

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 5396698	A	14-03-1995		EP 0554486 A1 JP 6216628 A US 5638080 A DE 69226348 D1 DE 69226348 T2		11-08-1993 05-08-1994 10-06-1997 27-08-1998 07-01-1999
JP 08166446	A	25-06-1996		NONE		
WO 9919585	A	22-04-1999		DE 19745149 A1 BR 9813042 A DE 59811066 D1 WO 9919585 A1 EP 1023511 A1 ES 2214737 T3 JP 2001520337 T US 6768413 B1		15-04-1999 15-08-2000 29-04-2004 22-04-1999 02-08-2000 16-09-2004 30-10-2001 27-07-2004
US 5253226	A	12-10-1993		DE 9111096 U1 DE 59205222 D1 EP 0531853 A2 ES 2084897 T3 JP 2731090 B2 JP 6027264 A		07-01-1993 14-03-1996 17-03-1993 16-05-1996 25-03-1998 04-02-1994
JP 08097616	A	12-04-1996		NONE		
JP 10117107	A	06-05-1998		NONE		